

A NEW 6X6X6 WORD CUBE

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In a 1976 issue of Word Ways, Paul Remley presented a partial solution to the construction of a 6x6x6 symmetrical word cube. In a 1978 issue, Jeff Grant identified a 6x6x6 symmetrical word cube using the OED. The cube below was discovered using Python code written by the author and executed on the cloud at www.picloud.com, using the public domain English Only Word List (EOWL) list of 6-letter words. The program reports there are no other 6-cubes and no cubes of higher order that can be constructed from the EOWL list.

The six squares that make up the EOWL cube are shown below:

| | | | | | |
|--------|--------|--------|--------|--------|---------|
| PRESTO | RUSHES | ESCORT | SHOVEL | TERETE | OSTLER |
| RUSHES | UNTAME | STALER | HALITE | EMETIN | SERENE |
| ESCORT | STALER | CAGILY | OLIVES | RELENT | TRYSTS |
| SHOVEL | HALITE | OLIVES | VIVERS | ETERNE | LESSEE |
| TERETE | EMETIN | RELENT | ETERNE | TINNER | ENTERA |
| OSTLER | SERENE | TRYSTS | LESSEE | ENTERA | RESEAL* |

*This word can also be RESEAT or RESEAU

References:

EOWL word list: <http://dreamsteep.com/projects/the-english-open-word-list.html>

Remley, Paul (1976) "Cubism," Word Ways: Vol. 9: Iss. 1, Article 2.

Available at: <http://digitalcommons.butler.edu/wordways/vol9/iss1/2>

Grant, Jeff (1978) "Cubism Revisited," Word Ways: Vol. 11: Iss. 3, Article 10.

Available at: <http://digitalcommons.butler.edu/wordways/vol11/iss3/10>